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NRO review(s)  
completed.

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COMIREX-D-16.1/7

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18 November 1969

MEMORANDUM FOR: Committee on Imagery Requirements  
and Exploitation

SUBJECT: Monthly Report on Overhead Imagery  
Reconnaissance

1. Attached is the report on overhead imagery reconnaissance  
for the month of October 1969.

2. Following is the table of contents:

Satellite Reconnaissance Missions Launched  
or Recovered in 1969 Pages 2 to 4

CORONA Page 5

Page 6

Cuba Page 7

China Page 8

South China and North Vietnam Pages 9 to 11

North Korea Page 12

USSR and European Satellites Pages 13 and 14

Status of FY 1970 Basic Support  
Exploitation Program Page 15

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completed.

Chairman

Committee on Imagery Requirements and Exploitation

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GROUP 1: EXCLUDED FROM  
AUTOMATIC DOWNGRADING  
AND DECLASSIFICATION

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Satellite Reconnaissance Missions  
Launched or Recovered in 1969

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1000 Series are CORONA (KH-4A), 2 buckets, medium resolution.  
1100 Series are CORONA (KH-4B), 2 buckets, medium resolution.

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Mission

Number

Date

Remarks

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1052

22 Sep - 7 Oct

Overall coverage was comparable to that of an average KH-4A mission -- interpretability ranged from poor to good. The mission was highlighted by the discovery of additional SS-11 ICBM silos at Pervomaysk and Derazhnya.

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Mission Number	Date	Remarks
1107	24 Jul - 11 Aug	Longest KH-4 mission flown to date -- 19 days. Mission was maintained on orbit for one extra day to obtain coverage of the Lop Nor Nuclear Test Site. [REDACTED] due to the failure of one of the primary camera systems, reduced mission effectiveness. Mission

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[REDACTED]	[REDACTED]
1051	2 May - 17 May

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Mission Number	Date	Remarks	STAT
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1050 20 Mar - 22 Mar

Mission 1050 became unstable after

[redacted]  
recovered after two days and the second  
at the end of three days. Some usable  
photography was obtained while the  
vehicle was unstable.

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1106 6 Feb - 14 Feb

Although a special requirement for color  
photography of selected targets in China

STAT

[redacted]  
mission was exceptionally good in other  
respects. Unusually favorable weather  
resulted in expenditure of all the film in  
9 days -- photography 83% cloud-free.  
Overall image interpretability was fair  
to good.

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# CORONA - Coverage Obtained

The following is the current status of the intelligence search requirements reported in terms of clear, panoramic photography of the USSR, East European Satellites, Communist China, and North Korea. The coverage is figured in millions of square nautical miles as shown below and on the map facing this page.

	<u>Mission</u>	<u>Gross (%)</u>	<u>Net (%)</u>	<u>Accum (%)</u>	STAT
Built-up Areas (1 May - 31 Oct 69)	[ ]	[ ]	[ ]	[ ]	[ ]
Underdeveloped Areas (1 Nov 68 - 31 Oct 69)					

\*Unique coverage acquired by the first mission of the reporting period is [ ]  
underdeveloped areas. The unique coverages shown will drop off for the next reporting period.

STAT

## DEFINITION OF TERMS:

1. GROSS - Total amount of 90-100 percent cloud-free pan photography collected by each mission.
2. NET - That portion of gross coverage which represents non-redundant coverage, i.e., the newly observed area not covered by a previous mission during the reporting period.

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CUBA

Target categories are shown below. Only two OLD HEAD missions, both successful, were flown during the month on 4 and 8 October respectively. No significant new military developments were noted.

	<u>Total Targets</u>
Missiles	
SAM-Associated Installations	38
Other Missile-Associated	7
Airfields	14
Port Facilities	17
Radar/Electronic Facilities	6
Military	89
Urban/Industrial	<u>4</u>
TOTAL	175

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## CHINA

1. A breakdown of China targets, by area and category, is shown below.

Category	Formosa				Total
	South	Manchuria	Central	Strait	
Missiles	7	13	62	4	86
Aircraft	38	52	122	8	220
Nuclear	2	1	29	-	32
Naval	46	9	36	30	121
BW/CW	14	9	7	1	31
Electronic	23	1	71	12	107
Ground Force	282	189	417	77	965
L.O.C. and Complexes	38	33	84	7	162
U/I Facility	2	1	41	-	44
TOTAL	452	308	869	139	1,768

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4. 1052-2 coverage of the Chinese nuclear test areas confirmed the Singer area, 70 nm northwest of Lop Nor, as the site of the Chic-9 underground test on 22 September 1969 and GZ-2 at Lop Nor as the site of the 29 September 1969 airdrop.

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### SOUTH CHINA AND NORTH VIETNAM

1. The breakdown of all COMIREX targets in South China and North Vietnam is shown below. Those in parentheses are those requiring baseline/surveillance quality, high-resolution coverage.

	<u>South China</u>	<u>North Vietnam</u>	<u>Total</u>
Missile Search	1	-	1
Deployed Missile Facilities	6	208	214
Airfields	38 (21)	16 (12)	54 (33)
BW/CW	14 ( 5)	-	14 ( 5)
Nuclear Facilities	2	-	2
Naval Bases and Ports	46 ( 6)	17 (10)	63 (16)
Ground Force Installations	282 (66)	99 (29)	381 (95)
L. O. C. and Urban Complexes	38 ( 4)	144 (15)	182 (19)
Other	<u>25</u>	<u>-</u>	<u>25</u>
TOTAL	452 (102)	484 (66)	936 (168)

2. During October reports were received showing Baseline (BL) and Surveillance (S) coverage as follows:

	<u>South China</u>	<u>North Vietnam</u>
GIANT SCALE (5 missions)	-	40 S
BUMPY ACTION (6 missions)	3 S	5 S
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TOTAL	11 S	49 S

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### SOUTH CHINA AND NORTH VIETNAM cont.

3. Drone overflights of South China were renewed in October with the launch of four missions on 17, 22, 25, and 28 October. The 17 October mission photographed several military storage and barracks areas in China near the Laos and Burma borders. No important changes were noted from previous coverage of these installations. The 22 October mission was recalled shortly after penetrating South China

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The 25 October mission failed to yield any usable photography and the 28 October mission was lost, probably to fighter action.

4. The coverage of military installations and key lines of communication in South China and North Vietnam for which a baseline is required stands as follows as of 31 October 1969:

Targets to be covered		168
Baseline acquired of South China targets	102	
Baseline acquired of North Vietnam targets	65	
Total targets covered with baseline quality		167
Targets remaining to be covered		1

5. The second requirement is for certain areas to be searched, at a specified frequency, to detect the introduction of offensive missiles and other new weapons systems to North Vietnam. Recent coverage, expressed in square nautical miles, was achieved against the area requiring weekly coverage and the area requiring coverage every three weeks, as follows:

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SOUTH CHINA AND NORTH VIETNAM cont.

a. Area requiring weekly coverage

<u>Date</u>	<u>Sq. NM Photographed</u>	<u>% of Requirement</u>
16 Sep - 22 Sep		
23 Sep - 29 Sep		
30 Sep - 6 Oct		
7 Oct - 13 Oct		

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b. Area requiring coverage every three weeks

<u>Date</u>	<u>Sq. NM Photographed</u>	<u>% of Requirement</u>
16 Sep - 6 Oct		

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## NORTH KOREA

1. The 614 targets in North Korea are distributed by category as shown below:

Missiles	41
Airfields	21
Nuclear	1
Naval	36
BW/CW	1
Ground Force	345
Other	<u>169</u>
TOTAL	614

2. GIANT SCALE Mission 198, 17 October, revealed FROG (Free Rockets Over Ground) equipment in North Korea for the first time. This equipment was located in the Pyongyang area.

3. No significant new intelligence on North Korea was obtained by CORONA Mission 1052, 22 Sep - 7 Oct. Readout for [REDACTED] is not yet completed.

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## USSR AND EUROPEAN SATELLITES

1. As shown below 5,647 of 9,194 COMIREX targets fall within the USSR and European Satellites. Any significant number of targets outside of the USSR is noted in parentheses.

<u>Missiles</u>	<u>Number of Targets</u>
ICBM	1,295
IR/MRBM	338
R&D	137
Production	58
Submarines	75
Anti-ballistic Missile	7
Other Missile	<u>182</u> ( 2 E. Germany; 1 Poland; 2 Bulgaria)
Total Missiles	2,092
 <u>Airfields</u>	
Long Range Bombers	62
Other	<u>631</u> (46 Poland; 42 E. Germany; 37 Czechoslovakia; 17 Bulgaria; 14 Hungary; and 15 Rumania)
Total Airfields	693
 <u>Other</u>	
Nuclear	155 (6 E. Germany; 2 each, Hungary and Rumania; 1 each, Poland, Czechoslovakia, and Bulgaria)
Naval Bases, Port	76 (2 Rumania; 3 E. Germany, and 8 Poland)
BW/CW Facilities	70 (6 Poland; 4 E. Germany; 2 Rumania)
Radar/Elec. Facilities	404 (81 Poland; 38 E. Germany; 16 Czechoslovakia)
Military	1,886 (236 E. Germany, 144 Poland; 101 Hungary; 126 Czechoslovakia; 72 Bulgaria; 60 Rumania)
Urban/Industrial	243
U/I	<u>28</u>
Total Other	2,862
TOTAL TARGETS	5,647

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Status of FY 70 Basic Support Exploitation Program as of 31 October 1969

A summary of basic third-phase targets exploited and reports/briefs produced thus far in FY 70 is given below:

TARGETS EXPLOITED  
 (1 Jul - 31 Oct 69)

	Initial	Update	Total
<u>Facilities</u>			
Installations	72	45	117
Complexes/Areas	8	5	13
Topics	2	-	2
<u>Weapons</u>			
Objects	1	-	1
Systems	-	-	-
			133

BASIC REPORTS/BRIEFS  
 (1 Jul - 31 Oct 69)

Reporting Organization	Report	Brief	Total
CIA/IAS	1	-	1
DIAAP-9	23	11	34
USAIIC	1	-	1
NPIC	46	27	73
			109

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